



SB300 FIMS COMPATIBLE FOSB

*Secure 300 mm wafer shipment
in an automated FOSB*



maximum protection during transport

Overview

As 300 mm moves into more advanced process nodes, particle protection requirements become more stringent, making automation more important than ever. The SB300 was the first FOSB to be FIMS compatible, and we've continued improving upon its original technology-leading design ever since. Entegris' long history of automation excellence continues with the SB300.

In addition to FIMS compatibility, the SB300 FOSB has molded-in wafer supports that sets itself apart from the competition with precise and permanent wafer plane positioning for the entire life of the FOSB. These fixed wafer planes reduce the need to replace side columns, which are difficult to clean, besides being dimensionally unstable. This instability can lead to equipment errors on reused competitive FOSBs. Molded-in wafer supports are more easily and efficiently cleaned, creating a better wafer environment while also being more repeatable and reliable through multiple reuse cycles now required by the industry.

Optimum Automation Performance

The SB300 incorporates a variety of features that provide reliable automation interfaces and interoperability, such as precise full pitch 10 mm wafer spacing, automated FIMS door, top automation flange, conveyor rails and kinematic coupling interfaces.

Maximum Productivity

Precise wafer planes maximize your wafer transfer throughput, while its dimensionally stable design improves tool and AMHS uptime.

Features	Benefits
Ultrapure polycarbonate housing is dimensionally stable	Low particle generation and outgassing
Molded-in wafer supports	Wafer location accuracy over multiple uses and minimized component interfaces which limit particulation
FIMS automation	Less exposure to human contamination and ambient environments
Protective gasket and filter	High filter flow rate allows external air to pass through as opposed to being forced through gasket
Ergonomic design	Multiple ergonomic operator handling orientations possible
Metal-free assembly	No metallic contamination

Specifications

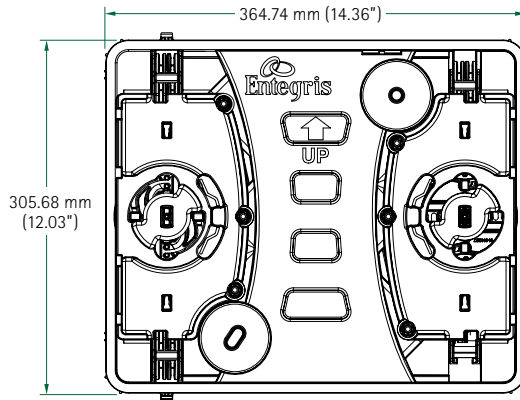
Materials:	Wafer contact	Shell, door, door cushion	Polycarbonate
		Rear retainer	Polybutylene terephthalate
		Center strip	Thermoplastic elastomer
	Exterior	Handles, auto flange, info pads	Polycarbonate
		Gasket	Thermoplastic elastomer
		KC Plate	Polycarbonate
Capacity:	25 wafers		
Dimensions:	Depth	332.77 mm \pm 0.1 mm (13.10" \pm 0.005")	
	Width	389.52 mm \pm 0.1 mm (15.33" \pm 0.005")	
	Height	336.93 mm \pm 0.1 mm (13.26" \pm 0.005")	
2-pack secondary packaging dimensions:	Length	680 mm (26.77")	
	Width	415 mm (16.34")	
	Height	365 mm (14.37")	
Weight:	Empty	4.6 kg (10.1 lb)	
	Full	7.8 kg (17.2 lb)	
Wafer:	Size	300 mm	
	Pitch	10.0 mm	
	Planes	\pm 0.5 mm from nominal	

Configuration Options and Accessories

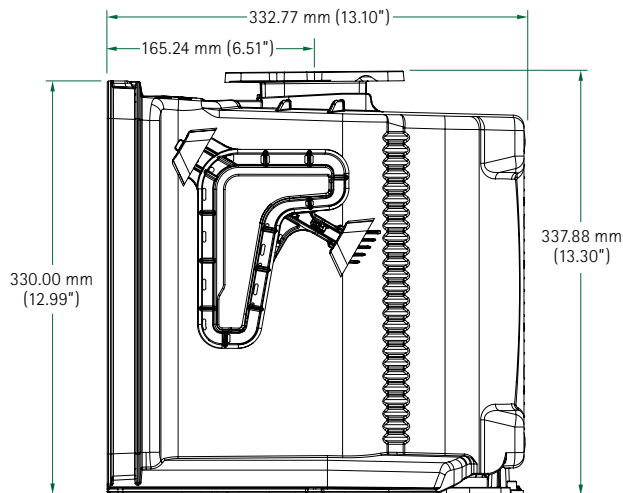
Color:	Door panels	Green, orange, red, white or gray		
Identification:	Standard	Barcode	Molded-in barcode on each door and shell	
	Options	RFID pill	32 mm glass transponder TI PN RI-TRP-RR2B	
			Horizontal orientation	Attaches to KC plate (additional holder not required)
			Vertical orientation	Attaches to RFID holder (either card or label holder)
		Label surface	Flat label surface holder/RFID available	
		Card holder	Card holder surface holder/RFID available	
		Info pads	4 positions available on KC plate, snap in place	
Optional parts:	Handles	90° design		
		30° design		
	Top automation flange			

Dimensions

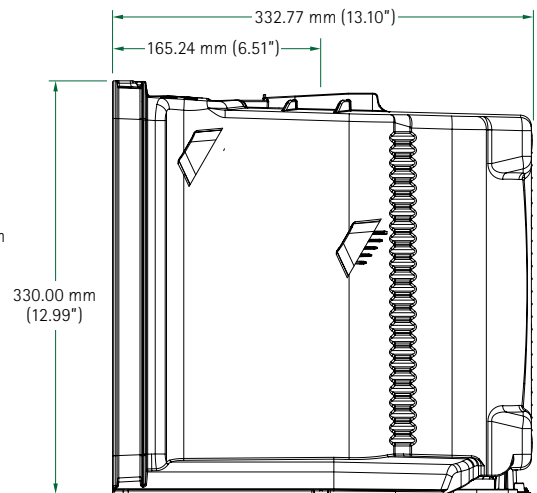
Front View



Side View With Handle



Side View Without Handle



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